THE TECH

VOL. XXVIII. No. 81 BOSTON, MASS., WEDNESDAY, MAY 12, 1909 PRICE THREE CENTS

EXAM. SCHEDULE IS ANNOUNCED

Provisional List of Finals for Current Year is Ready

PERIOD BEGINS MAY 24

Following Schedule is Subject to Correction by Institute Bulletin Later

Year.	Subject.	Hour.
	Monday, May 24.	
4	*Alt. Current Mach. 650.	2-5
3	*Applied Mechanics. 65, 66, 67, 69.	9-12
3	*Assaying. 432	2-4.30
3	*History of Science. 761.	2-4
4	*Hydraulics. 330, 331, 332.	9-12
3	*International Law. 185.	2-4
3	*Mining Engineering. 458.	9-12
3,4	*Theoretical Chemistry. 610.	9-12
3,4	Theory of Warship Design 915, 916.	9-12
	Tuesday, May 25.	
4	*Ap. Mech. 80, II, III, X, XIII, XIII-A.	9-12
4	*Ap. Mechanics. 82. VI.	9-11
3	Argument & Debate. 145	9-11
3	Business Law. 186	2-4
4	*Elec. Eng. Lab. 693.	2-5
3	English Literature of XIX Century. 157.	9-11
3	European Civilization and Art. 177.	9-11
3	History of Science. 761.	9-12
3	Labor Problems. 196.	9-11
4	*Machine Design. 404.	2-5
3	Municipal Government. 181.	9-11
G	Org. & Adm. of Pub. Ser. Corp. 698.	9-12
4	*Steam Engineering. 385.	9-12
4	Structures. 348, 350, 351.	9-12
	Wednesday, May 26.	
4	Alt. Current Mach. 650.	9-12
3.4	Alternating Currents. 656.	9-12
4	Applied Chemistry. 640.	9-11
3	Bacteriology of Water and Sewage. 748.	2-4
3	*Economic Geology. 859.	2-4
3	Electrical Engineering. 653, II	9-12
G	Geology of Igneous Rocks. 877.	9-12
4	Industrial Chemistry. 580.	2-4
4	Industrial Management. 409.	9-11
4	Metallurgy. 442.	9-12
3	Mining Engineering. 458.	9-12
3	Organic Chem. Lab. 598.	9-10
4	*Organic Chemistry. 592.	9-12
4	*San. and Hyd. Eng. 334.	9-12
3	Ship Construction. 904.	9-11
3	Structures. 345, 346.	9-12
4	Theoret. Biology. 704.	9-12
4	Theoret. Physics IV. 829, 830	9-12
G	Water Power. 343.	9-12
	Thursday, May 27.	
3	Anthropology. 720.	9-11
3	Applied Mech. 70. II.	9-12
3	Applied Mech. 71. XIII. XIII-A.	9-11
3	Applied Mech. 72. III, X.	9-12
3	Applied Mech. 74, IV.	9-12
3	Assaying. 433.	9-11
3.4	*Dynamo Electric Machinery. 661.	2-4
4	Electrical Engineering. 657.	9-12
2	*English Literature. 150.	2-4
3	*Geology Dynamical. 855.	2-4
4	History of Chemistry. 645.	9-11
4	*Hydraulic Measurements. 333.	2-4
4	Hydraulic Motors. 338.	9-12
4	Hydraulics. 331.	9-11
2	*Mathematics. 30.	9-12
2	*Mathematics. 32.	9-12
4	Municipal Lab. Methods. 755.	9-12
3	Organic Chemical Laboratory. 599.	2-3
2.3	*Organic Chemistry. 590.	9-11
4	*Sugar Analysis. 573.	2-4
	Friday, May 28.	
4	Applied Mechanics. 81. II. XIII. XIII-A.	9-12
2	*Architectural History. 490.	9-11
2	*Descriptive Geometry. 107.	9-12
3	*Elements of Electrical Engineering. 683.	2-4
3	*Elements of Electrical Engineering. 655.	2-5
2	English Literature. 150.	9-11

(Continued on page 2.)

SPRING HANDICAP MEET SATURDAY

Is Final Move to Get Team in Shape for Intercollegiates

MASS MEETING FRIDAY

Kanaly Expects all Men who Have Done Track Work to Enter—Chance For All

Coach Kanaly is making every effort to get a team in shape that will make a creditable showing in the intercollegiate track meet May 21 and 22. His latest move is to hold a handicap meet on Saturday. This is a new wrinkle and should be a big help in developing the team.

Mr. Kanaly was disappointed in the small number of men who started in some of the events in the spring meet last week, especially where the individual trophies were offered. This may be because some of the new men were scared out by the fear that too many star men would appear for them to have any chance.

Everyone will have an equal chance in the handicap meet, as the handicaps will be arranged so that no race will be won till the finish, and most of the finishes will be exceedingly close. All entries should be in by Thursday night for the handicaps to be properly arranged.

There are two principal objects in holding this meet. In the first place, the men who are to compete in the intercollegiates will be picked at this time. In the second place, the squad needs every incentive to do faster work on the track, and the field events are in miserable shape. Tech's chances of winning the intercollegiates, which were fairly good at the beginning of the year, will have to be postponed till next season. The meet Saturday should give a good indication of what kind of a track team Tech will have next year, as the men who were depended upon to bring honors this spring to the Institute have been a great disappointment. The men that really do take to heart the desire of doing something for Tech will continue to do their best, and with the assistance of those who are to come along next year, it is certain that Tech will have to be reckoned with before the New England intercollegiate championship is decided.

Captain Gram, as chairman of a committee appointed by the Athletic Association, has arranged for a mass meeting at the Union on Friday at 1:30 P. M. Dr. Rockwell and a few others will speak, and some of the cheers and songs will be rehearsed. A cheer leader for the intercollegiates will probably be chosen. It is hoped that the Union will be packed.

PRES. ELIOT HONORED

The highest honors of Japan were bestowed upon Charles W. Eliot, Harvard's retiring president, yesterday when Ambassador Kogoro Takahira decorated him with the Japanese Order of the Rising Sun. Dr. Eliot is the sixth person in this country who has received the insignia of this order, which corresponds to the Grand Cross of the Legion of Honor in France and to the Order of the Bath in England.

Two other residents of Boston enjoy the distinction of wearing this royal order. One of these is Lieut. Commander Goro Tomanaga, a student at the Institute in the Naval Architecture course, whose brilliant naval record in the late Russo-Japanese war won for him his insignia. The other is Charles M. Baker, M. I. T. 1878, a member of the firm of Chase and Barstow, brokers, to whom the order was given in recognition of the aid he rendered Count Kaneka, who represented Japan's financial interests in this country during the Russo-Japanese war.

BIG FUTURE FOR CHEMICAL FIELD

Dr. Nichols Says Chemistry Will Reach Importance of Engineering

INSTITUTE COURSES

Aim is to Give Broad Training—Demand for Men Greater Than Supply

By Dr. H. P. Talbot.

In a recent speech Dr. W. H. Nichols, President of the General Chemical Co., made the statement that, in his opinion, chemistry and chemical engineering are destined to play a part in the development of this and other countries during the next fifteen to twenty years equal to that which electricity and electrical engineering have played in the recent past, and that there is no apparent reason why this country should not become pre-eminent in this field of development.

Dr. Nichols is eminently qualified to speak with authority, and he is by no means alone in his predictions regarding the future importance of chemical science, both pure and applied. The service which chemistry can render in the development of the commercial interest of this country, in particular, and also in the safeguarding of the welfare and comfort of municipal communities, has been very inadequately appreciated, and but little utilized. Increasing pressure of competition, with simultaneous increase in the demands for the refinement of products on the part of the consumer, have called attention to the need of a more accurate control of raw materials, conditions of manufacture, and finished products, and all this is largely the task of the chemist. Added to these are two other factors which are equally or more important, namely, the necessity for greater economy in the consumption of raw materials, fuels and the like, and, a greater public demand that waste materials shall be so disposed of as not to become a source of offence or harm to others.

But it is not within the confines of our present chemical knowledge that the greatest development is to be expected. Chemical changes at high temperatures have been only slightly investigated as yet, and those at low temperatures are still less known. The influence of catalytic agents, the role of the colloids, the utilization of the energy of radio-active bodies, are a few of the potentially important—but still relatively undeveloped—factors in the chemistry of the future, not to mention the many fundamentally important principles which are being worked out along the border line between physics and chemistry, nor to consider, in the light of the experiences of recent years, the probability of the discovery of now unthought of phenomena of equal import.

In these predictions for chemistry as a science are to be realized, it can only be thought the utilization of an increasingly large number of trained men. These must be in part teachers whose duty and keen pleasure it is to educate and train others in order to maintain the supply of men; others must be trained for efficient service in the development of the science as investigators, not alone in institutional laboratories, but in government and technical laboratories of research, of which an increasing number must be established and which offer most attractive opportunities for productive effort in advancing the confines of both pure and applied science. The control of sanitary conditions also demands many and able workers, and broad opportunities are open before the capable man in this field. The course in chemistry has been carefully planned to provide for these and other lines of work, for which a fundamental chemical training is re-

(Continued on page 3.)

SOPHS WHITEWASH FRESHMEN RIVALS

First Game in Inter-Class Series Results in 1911 Victory

NO HITS OF GLAZE

Fielding and Batting of 1912 Team Is Very Weak—Hufsmith Excells for 1911

1911 yesterday took the first game of the sophomore-freshman series by a score of 7-0. The playing of both teams was ragged at times, but the sophomores managed to win out by bracing up in tight places.

Several times the freshmen failed to score because of the star playing of Hufsmith. The game was practically won in the first inning. Hufsmith was hit by a pitched ball and stole second. A single by Odell and a triple by McLoughlin scored two runs.

The summary:

1911	bh	po	a	e
Capt. Hufsmith, 2nd	1	0	4	0
Odell, 1st	1	12	0	0
O'Neil, 3rd	0	1	2	0
McLoughlin, cf	1	2	0	0
Williams, c	0	10	0	0
Parker, ss-p	1	1	0	1
Harrington, lf	0	1	0	0
Metcalf, rf	0	0	0	0
Glaze, p-ss	1	0	5	2
Totals	5	27	11	3

1912	bh	po	a	e
McAvoy, 2nd	1	0	0	1
Eicher, ss	0	0	1	1
Cherry, c	0	8	0	1
Foster, 3rd	0	0	0	0
Allen, cf	0	2	0	0
Torrey, 1st	0	7	0	1
Coulson, lf	1	3	0	0
Sloan, p	0	2	4	1
Taylor, rf	0	2	1	0
Totals	2	24	6	5

Innings.	1	2	3	4	5	6	7	8	9
1911	2	0	0	0	0	3	1	1	x—7

Runs: Hufsmith, Odell 2, Williams, Parker 2, Metcalf.

TWO ANNUAL DINNERS

Two of the professional societies hold their annual dinner tonight.

The Mining Engineering Society will have its dinner at the Lombardi Inn tonight at 6:30. Mr. Edmund Billings of the Boston Civic league, who was sent over to Messina at the time of the earthquake in order to manage the Massachusetts fund, will speak on the earthquake probably from a geographic standpoint. Profs. Richards, Warren, Locke, Bugbee, Hofman and former Prof. Lodge will be present and are expected to speak.

The Chemical Society, too, will hold its annual dinner tonight at 6:30 in the two upper rooms of the Union. Drs.

(Continued on page 4.)

CALENDAR

WEDNESDAY, MAY 12.

4:15 P. M.—Lecture on Wireless Telegraphy, 22 Walker.

5:00 P. M.—Senior Portfolio Committee, Union.

5:15 P. M.—Dining Room Committee, Union.

6:30 P. M.—Chemical Society Dinner, Union.

7:00 P. M.—Mining Eng. Society Dinner, Lombardi Inn.

THURSDAY, MAY 13.

4:30 P. M.—Class Day Committee, 11 Pierce.

FRIDAY, MAY 14.

4:15 P. M.—C. E. Society Meeting, 11 B.

THE TECH

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Wednesday, May 12, 1909

In another column is an article which will give some indication of the condition the track team is in. This state of affairs in an institution of 1400 students can be due only to two causes: either about 95 per cent. of the men at Tech are physically incapacitated for any sport more strenuous than chess or ping pong, or else—and this is more probable—they do not care enough about the school which will one day mean more to them than any other place in the world.

All are heartily sorry for the first class, although these are often the most loyal and enthusiastic, but for the second class there is little excuse. A man who can go through Tech without giving the slightest intimation that he cares one bit more for the greatest scientific school in the world than simply the privilege to add her degree to his name, shows little promise of being very enthusiastic over any subsequent relations, and a man without enthusiasm will not get very far in these days. The man who has the ability and could have come out for the track team, perhaps the very man who will be needed next week to pull the team though to victory, will in all probability be around complaining of Tech's bad luck when he ought to be out back of the barn kicking himself for not doing his part, even though it be small.

There is a chance to help yet; come out Saturday and do your best. You will make someone else do better work, and your presence and interest will be an inspiration to those who will be chosen to wear the cardinal and gray in the intercollegiates. You are needed. Will you help?

EXAM. SCHEDULE

(Continued from page 1.)

Year.	Subject.	Hour.
4	European Civilization and Art. 175.	2-5
G	European Civilization and Art. 176.	9-12
2	*French III B. 223.	2-4
3	Materials. 352.	9-12
4	*Metallurgy. 442.	9-12
2.3.4	*Metallurgy of Iron. 441.	2-4
3	Microscopic Anatomy. 722.	9-12
4	Personal Hygiene. 729.	2-4
4	†Prox. Tech. Anal. 629.	9-12
3	Quantitative Analysis. 559.	9-12
3	*Railroad Engineering. 313.	9-12
4	Steam Engineering. 387.	9-12
3	Technical Electrical Measurements. 685.	9-12
4	*Technical Electrical Measurements. 685.	2-3.30

Saturday, May 29.

4	Applied Electro-Chemistry. 797.	9-11
3	Applied Mechanics. 75, IV.	9-12
3	Astronomy & Geodesy. 308.	9-12
4	*Bridge Design. 355, 356.	2-5
4	*Dynamics of Machines. 401.	2-5
4	*Electrical Engineering. 657.	2-5
3	*Electrical Measuring Instruments. 778.	9-10
4	Electric Light & Transmission of Power. 663.	9-12
3,4	Electro-Chemistry. 613.	9-11
3	Heating and Ventilation. 414.	9-11
4	Heating and Ventilating Engineering. 423.	9-11
4	Locomotive Engineering. 421.	9-11
4	Marine Engineering. 420.	9-11
4	Mill Engineering. 422.	9-11
3	Naval Architecture. 901.	9-12
4	*Petrography. 843.	9-12
3	Petrography. 843.	9-11
2	Physics. 770.	9-12
3	*Political Economy. 190.	2-4
2	*Qualitative Analysis. 552.	2-4
4	Railroad Engineering. 319.	9-12
4	Sanitation of Ships. 756.	9-11
G	Structural Design. 357.	9-12
2	Surveying. 305.	2-4
3,4	Theoretical Chemistry. 610.	11-12
2.3.4	Theoretical Chemistry. 618.	9-12

Tuesday, June 1.

3.4	Air, Water and Food Analysis. 565, 569, 570.	9-11
2	Applied Mechanics. 60.	9-12
2	Cryptogamic Botany. 735.	9-12
1	Military Science. 990.	2-3
4	Mining Engineering. 459.	9-11
4	*Organic Chem. Lab. 598.	2-4
3,4	*Quantitative Anal. 559.	2-4
3	Railroad Engineering. 313.	9-12
3	Steam Engineering. 385.	9-12
4	Steam Engineering. 385. VIII	9-11
4	*Structures. 348.	2-5
1	U. S. History. 170.	9-11
2	Valve Gears. 360, 361, 362.	2-4

Wednesday, June 2.

3	Architectural History. 491.	9-12
1	†Descriptive Geometry. 103.	9-12
1	Descriptive Geometry. 105.	9-12
1	*English. 140.	2-4
2	*Geology, General. 856.	2-5
3	*Geology, Struct. & Field. 857.	2-4
2	Mathematics. 31.	9-12
3	Physiology, General. 725.	9-12
2.3	†Precision of Measurements. 772.	2-4
3	Surveying Adv. 303.	9-11

Thursday, June 3.

2	Architectural History. 490.	9-11
3	*Differential Equations. 43.	2-5
3	*Highway Engineering. 314.	9-12
2	Mach. Tools & C. M. 360, 361, II, III-2, XIII.	9-11
1	Mathematics. 21, 22.	9-12
2	Mineralogy. 840, 841.	2-5
3	Organic Chemistry. 592.	9-12
3	Structural Design. 538.	9-12
3	Vertebrate Anatomy. 717	9-12

Friday, June 4.

3	*Architectural History. 491.	2-5
2	*European History. 173.	2-4
3	Indust. Water Analysis. 567.	9-11
1	*Mathematics. 20.	9-12
1,2	Microscopy, Industrial. 708.	2-4
1	*Military Science.	2-3
2	*Physics. 770, 1st term.	9-12
3	*Steam Engineering. 385.	9-12
2	Zoology. 716.	2-4

Saturday, June 5.

1	*Chemistry. 550.	2-5
2	*Mechanism. 360, 361, 362, 364.	2-5
3	*Physics. 771.	9-11
2	Quantitative Anal. 558.	9-12
2	Ship Construction. 900.	2-4
2	*Spherical Trigonometry. 24.	9-11
1	*Trigonometry. 23.	9-12

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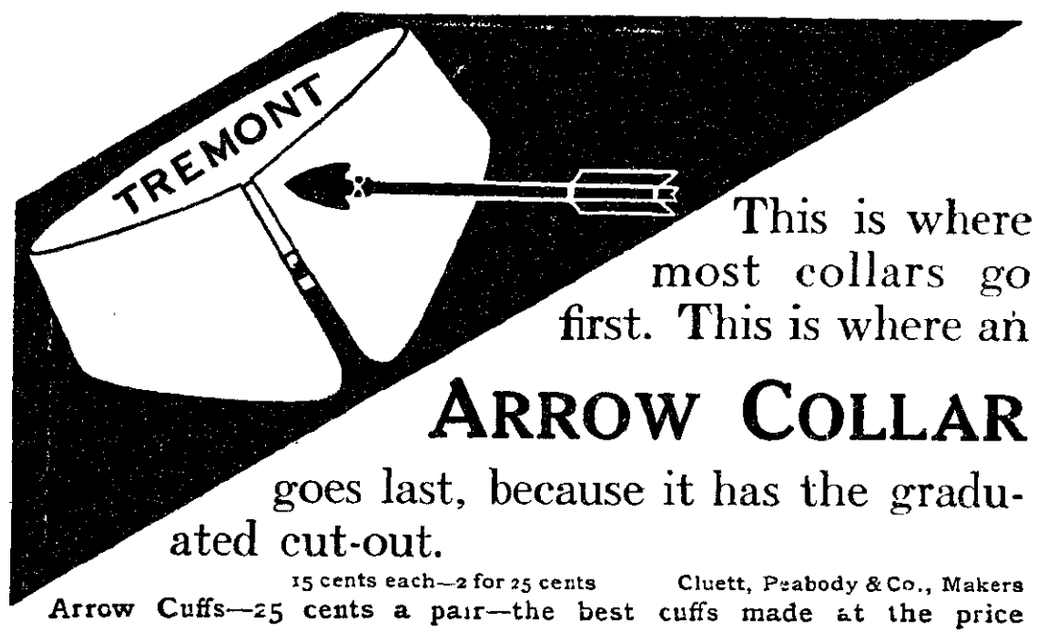

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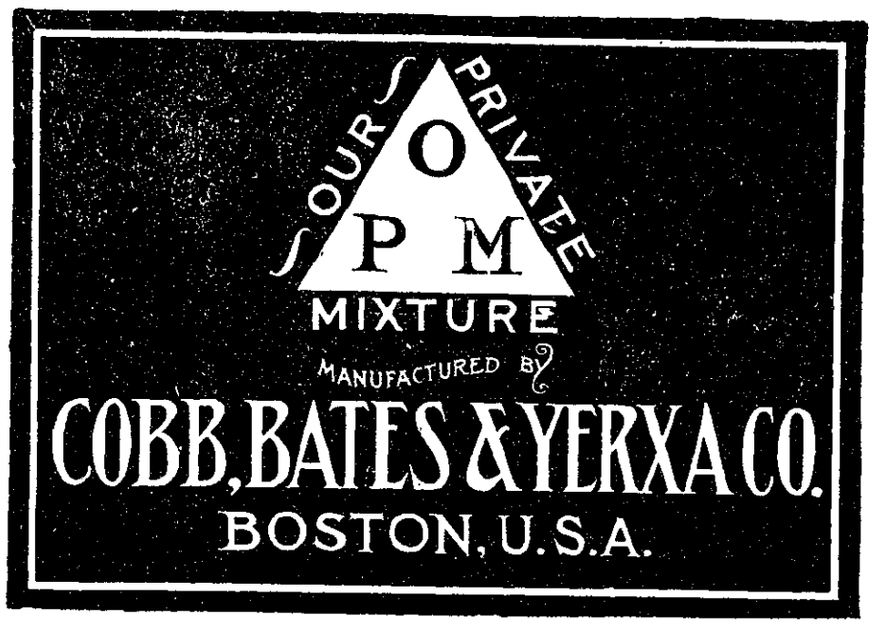

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FUTURE OF CHEMISTRY

(Continued from page 1.)

quired, combining, as it does, with the chemistry, the physics, mathematics and language essential to efficient service, and breadth of view.

The largest numerical demand comes, and probably will come, for men who can serve the industries through the chemical control of manufacturing processes, and particularly for those men, who, by virtue of combined knowledge of chemistry and engineering are capable, not only of investigating a problem or developing a process in the chemical laboratory, but of studying it from an engineering standpoint, or developing it into a profit-producing plant. The Institute Course in Chemical Engineering was remodelled a few years ago, after careful consultation with those connected with the technical interests, many of whom are employers of our graduates, in order to prepare men to enter effectively into this field. It is safe to say that no engineering profession presents larger opportunities, or, at present a less crowded condition.

Taking the year through, the demand for chemically trained Institute men, is now distinctly greater than the supply, and, although it seems likely that this demand will increase most rapidly along the lines of chemical engineering, there are also likely to be adequate opportunities for a successful career for those whose aptitude leads them to confine themselves to chemical and allied sciences to the temporary exclusion of engineering. For the man who takes proper advantage of the opportunities for breadth of experience and training which the course in chemistry or Chemical Engineering affords each in its respective field, and combines with the knowledge good judgment, and courage to undertake pioneer work. The outlook seems very bright. He is needed in teaching profession, and to one whose aptitude leads in this direction, there can be no more useful, valuable or pleasurable career; he is needed in the research laboratories, and nowhere will he find a more fascinating life work; he is needed in the arts, where almost numberless problems are awaiting solution. If he enters the industries, whether chemist or chemical engineer it will probably be through the laboratory, and a certain amount of patient and painstaking work must become the stepping-stone to larger responsibilities. It is here that the engineering training becomes effective in that it so broadens the knowledge of the factors involved that the results of chemical investigation or discovery made in the laboratory may be transferred into a working process, on a chemical scale, often under the superintendence of the discoverer and to his personal advantage. The aim of both of these courses is to fit men to assume such positions of dignity and responsibility, and the same to be adequate evidence that they accomplish this purpose.

BATTALION INSPECTION

Capt. Julius A. Penn, General Staff, U. S. A., will make the annual battalion inspection this afternoon. This inspection is an annual event here as well as in all schools and colleges where an officer of the army is detailed, and it is upon the showing made at these inspections that the military work of the school for the year is judged. Three officers are sent out from Washington, and from all such schools they select the five institutions excelling in military instruction. The graduates from these five schools who have the highest standing in their military work have the privilege of being appointed second lieutenants in the regular army.

To Advertisers in General

A SPECIAL ISSUE AND A GOOD ONE AT THAT!

The Tech plans to publish the largest issue that it has ever had on June 7, the opening day of the Grand All-Technology Reunion. This issue will reach the foremost engineers of the world, who will be in Boston for the Reunion.

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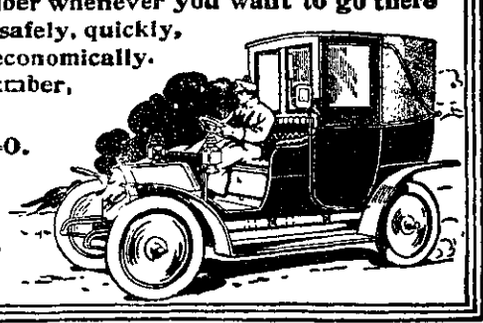

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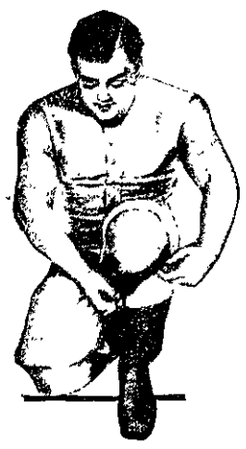

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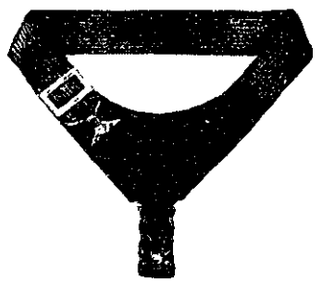

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COFFEE or MILK
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TWO ANNUAL DINNERS

(Continued from page 1.)

Walker, Talbot, Fay, Mulliken and Gill will be present and will probably speak on subjects of interest to the society. Mr. Field will be toastmaster. A special menu gotten up in chemical terms has been printed, and a good dinner is promised. The officials elected for the ensuing year will be announced at the dinner.

NOTICES

RIFLE CLUB.—The semi-annual meeting of the Rifle Club will be held Friday, May 14, at 1:00 o'clock, in 30 Rogers. M14

WIRELESS TELEPHONY. — Mr. E. D. Forbes of the Physical Department will give a lecture, illustrated with experiments, upon his researches in wireless telephony, in Room 22 Walker, on Thursday, May 13, at 4:15. All members of the M. I. T. Wireless Society are especially invited. E. B. Moore, President M. I. T. Wireless Society.

SENIORS.—Second payment for the Portfolio is due. Books will be ready about May 24. W. J. Kelley, chairman. M21

There will be a meeting of the C. E. Society Friday, May 14, in 11B at 4:15. Prof Swain will speak about the Quebec bridge. Annual election of officers will take place at this meeting. J. M. Fitzwater, Secretary.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

A few positions in our firm for Summer at $2.00 per day and up. 687 Boylston St., room 413. 9-12; 1-5:30; 7-9:30. M14

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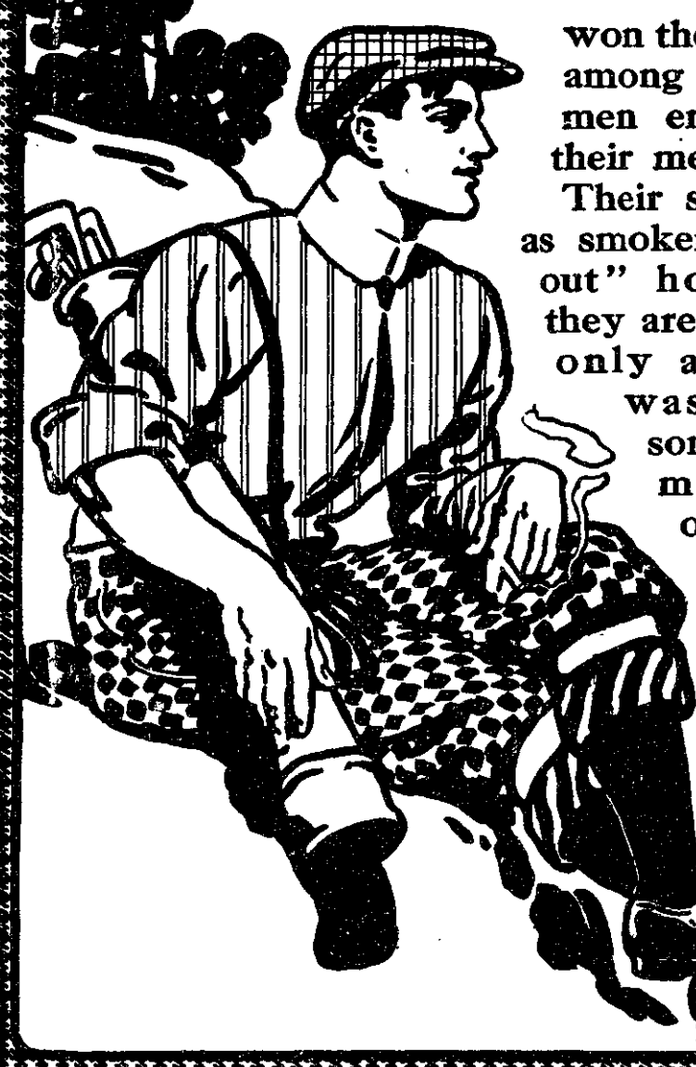

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